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**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Small Entity)***(Only for new nonprovisional applications under 37 CFR 1.53(b))*Docket No.  
485-001Total Pages in this Submission  
65**TO THE ASSISTANT COMMISSIONER FOR PATENTS****Box Patent Application**  
**Washington, D.C. 20231**

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

**ONLINE PUBLISHING AND MANAGEMENT SYSTEM AND METHOD**

and invented by:

**Robert Fine**  
**Bruce Bolger**  
**James Kilmetis**If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:☒ **Continuation** ☐ **Divisional** ☐ **Continuation-in-part (CIP)** of prior application No.: \_\_\_\_\_

Which is a:

☒ **Continuation** ☐ **Divisional** ☐ **Continuation-in-part (CIP)** of prior application No.: \_\_\_\_\_

Which is a:

☒ **Continuation** ☐ **Divisional** ☐ **Continuation-in-part (CIP)** of prior application No.: \_\_\_\_\_

Enclosed are:

**Application Elements**

1. ☐ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 51 pages and including the following:
  - a. ☒ Descriptive Title of the Invention
  - b. ☐ Cross References to Related Applications *(if applicable)*
  - c. ☐ Statement Regarding Federally-sponsored Research/Development *(if applicable)*
  - d. ☐ Reference to Microfiche Appendix *(if applicable)*
  - e. ☒ Background of the Invention
  - f. ☒ Brief Summary of the Invention
  - g. ☒ Brief Description of the Drawings *(if drawings filed)*
  - h. ☒ Detailed Description
  - i. ☒ Claim(s) as Classified Below
  - j. ☒ Abstract of the Disclosure

# UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.  
485-001

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## Accompanying Application Parts (Continued)

15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Small Entity Statement(s) - Specify Number of Statements Submitted: \_\_\_\_\_
17. ☐ Additional Enclosures (please identify below):

## Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)

18. ☒ Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.

## Warning

**An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.**

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Small Entity)**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

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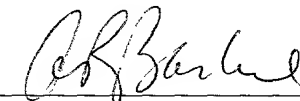
**Fee Calculation and Transmittal**

**CLAIMS AS FILED**

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	46	- 20 =	26	x \$9.00	\$234.00
Indep. Claims	2	- 3 =	0	x \$40.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$355.00
OTHER FEE (specify purpose)					\$0.00
TOTAL FILING FEE					\$589.00

- ☐ A check in the amount of \_\_\_\_\_ to cover the filing fee is enclosed.
- ☐ The Commissioner is hereby authorized to charge and credit Deposit Account No. \_\_\_\_\_ as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of \_\_\_\_\_ as filing fee.
  - ☐ Credit any overpayment.
  - ☐ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
  - ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated: November 17, 2000



Signature

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UNITED STATES PATENT APPLICATION

OF: ROBERT FINE

BRUCE BOLGER

JAMES KILMETIS

FOR: ONLINE PUBLISHING AND MANAGEMENT SYSTEM AND  
METHOD

**BACKGROUND OF THE INVENTION**

5 This invention relates to an online and print publishing management system that allows users to integrate publishing management functions, such as report generation, via the Internet.

10 Currently, many publishers are experimenting with Web sites offering news and banner ads. Many are finding that these sites increase subscription solicitation costs by making it too easy for readers to get news without subscribing, and are failing to generate significant revenue because of drawbacks with the banner ad/clickthrough model. Most publishers outside of the computer software business that have  
15 experimented with generating transaction fees on e-commerce sales have failed to generate significant revenues through commissions.

20 In addition, publishers already manage myriad functions on separate software platforms that don't talk to one another. This makes it even more difficult to undertake Web ventures, because it is already time-consuming enough for separate publishing divisions to manage and get real-time information about advertisers, contracts and advertisements; content,  
25 authors, and copyrights; subscribers and renewal notices; reader surveys, and buyers' guides.

30 It is therefore desired to provide a system that allows an authorized manager to manage all aspects of print and Internet publishing on a single Web-based platform and get critical, real-time information about any functional area.

Many brick and mortar companies with Web sites are frustrated with the inability to know who actually visits their Web sites and are seeking to use the Internet as a database, relationship-building tool. The present invention makes it affordable for almost any size company to create a buyer's catalogue along with a special, registration-only portion of their Web site that uses content, special pricing, incentives, etc., to get people to register to receive future offers and newsletters by print or e-mail.

Any organization that has even a single Web site, newspaper, magazine or newsletter can benefit from the present invention, and the more newspapers, newsletters and magazines, and Web sites published, the more it can benefit.

#### SUMMARY OF THE INVENTION

The present invention is an online publishing management system that includes at least one advertisement computer means for storing an advertisement file; at least one article computer means for storing an article file; and a publishing management server computer. The publishing management server computer includes user interface means for receiving data from and sending data to a user, database means for storing a plurality of database tables, and processing means. The database tables include an advertisement table having a plurality of advertisement records, each advertisement record having information regarding an advertisement file stored on an advertisement computer means; an advertiser table having a plurality of advertiser records, each advertiser record having information regarding an advertiser associated with at least one advertisement file stored on an advertisement computer means; and an article table having a plurality of article

records, each article record having information regarding an article file stored on an article computer means. The processing means is adapted to generate a plurality of reports as a function of one or more of the database tables; allow a user to input, via the user interface means, criteria for generating the reports; provide the reports to a user via the user interface means; and allow a user to enter or modify, via the user interface means, records in any of the database tables.

Additionally, the database tables may further include an author table having a plurality of author records, each author record having information regarding an author associated with at least one article file stored on an article computer means.

The database tables may also include a partner table having a plurality of partner records, each partner record having information regarding a partner of the system, and/or a subscriber table having a plurality of subscriber records, each subscriber record having information regarding a subscriber of the system.

The processing means may be further adapted to generate a composite article for publication to a subscriber; the composite article comprising an article file and at least one advertisement reference associated therewith. In this event, the composite article may be in HTML code, and the associated advertisement reference is a resource locator (e.g. a URL) of an advertisement associated with the composite article.

The reports generated by the processing means may include an advertiser contract report having a list of contract records for an advertiser of the system, the contract records

including a description of the advertiser, a description of the advertisement associated with the advertiser, a field indicative of the start date and the end date of the advertisement, and a field indicating an article that the advertisement is associated with and the display position within that article.

The reports generated by the processing means may include an advertiser lead report including a list of advertiser lead records, each advertiser lead record having an identification of a subscriber, a list of articles previously accessed by that subscriber within a defined time period, and a list of advertisements associated with those articles previously accessed by that subscriber within a defined time period.

The reports generated by the processing means may also include an article usage report having a list of articles and the number of subscribers that accessed each article in a given time period. The reports may also include an article activity report having a list of articles and activity statistics, the activity statistics including the number of times the article was viewed, the number of times the article was printed, and the number of times the article was emailed.

In addition, improvements include the ability to track print (as well as Internet) advertisers, advertisements, advertising contracts, content, authors, and copyrights on the same above platform; to share information between departments, so that editors can see what advertisements look like before placing editorials; the marketing department can get easy access to subscriber and advertiser databases; the sales department can quickly see what ads are in inventory or how many subscribers meet specific buying criteria, etc.



Improvements also include the ability to easily exchange databases or portions of databases between publishing partners; to automatically bill and notify sales management and both Internet and print advertisers when contracts expire; and to enable credit-card based access to detailed information, such as car repair manuals. The system will track archived print (along with Internet) articles in a format ready for resale or reuse via print or Internet applications; track forward bookings of advertising space; manage and track author/freelance payments; integrate advertiser information with popular sales contact management programs; integrate print and Internet publication subscriber databases; and manage digitized radio, television, and streaming video advertising on the same above platform.

Moreover, the invention can track the names and full demographic information of people who click from banner ads to Web sites.

#### BRIEF DESCRIPTION OF THE DRAWING

Figure 1 is a block diagram of the system topology of the invention;

Figure 2 is a dataflow diagram that shows the relationships between the various tables utilized by the present invention;

Figure 3 is a data flowchart that shows the initial contact and redirection steps;

Figure 4 is a flowchart that shows the advertising display steps;

Figure 5 is a flowchart that shows the click recording steps;

Figure 6 is a flowchart that shows the table of contents display steps;

Figure 7 is the web page for Add or Find an Advertiser;

Figure 8 is the web page for Add an Advertiser;

Figure 9 is an example of an Advertiser Contract Report;

Figure 10 is an example of an Article Usage Report.

#### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The present invention is a system that provides for print and Internet publishers to develop any content-driven or e-commerce Web strategy in a way that works with the printed products. The invention makes it easy to control on a single, easy-to-use platform every element of Internet publishing in a way that meshes cleanly with a print operation, including:

1) archiving searchable content by topics, including when it ran, where it ran (both in print and Internet publications), and other data including authors and copyright information and syndication information;

2) making it easy to place and track banner and display advertising so that advertisers can have ads adjacent to related news or other topics;

3) maintaining registered-user accesses or subscriptions (unpaid or paid), and easily tracking precise registered or nonregistered accesses to each article, including the identity of those who printed or e-mailed articles to colleagues;

4) maintaining online, searchable databases of products, services, calendars, resources, etc. that can be used for e-commerce or promoting e-commerce of the advertisers;

5) easily creating online surveys and benchmark studies;

6) letting readers electronically update their print/Internet subscriptions;

7) enable advertisers to electronically access own advertising reports, including demographics of article readership or even the names of the readers, if desired.

Referring to Figure 1, the system of the present invention (commercial name "Press2Web") is shown in top level block diagram format. A network 100, such as the Internet, is used to allow communication between various computers that are interconnected thereto. A publishing management server 102 contains a database of tables 104 that are linked as described herein; these tables contain the various data records that relate to users, subscribers, advertisers, advertisements, authors, and the like. Authorized users such as system administrators may be given access to the management server 102 over the Internet to allow entry of data into the appropriate tables, editing of records, as well as report generation to be described herein.

Figure 1 also illustrates an article server(s) 108, which are used to store the various articles that are published by the system. Importantly, the articles may reside anywhere in the system (including on the management server), as long as they can be referenced by a resource locator such as a URL for

publication. Likewise, an advertisement server(s) 110 is accessed by the system, and is used to store the advertisement files that are published along with the articles.

5           Figure 1 also illustrates user computer(s) 106, wherein the users may be readers (subscribers) that will obtain the publications as desired. The management system tracks the users, the articles read, etc. to aid in report generation in accordance with this invention.

10           When a user logs onto the administrative web site hosted by the publishing management server 102, he is presented with a main web page that provides several groups of navigational buttons labeled MAIN TABLES, REPORTS, OTHER TABLES, CATALOG, and SYSTEM.

#### 15           MAIN TABLES

20           The MAIN TABLES navigational buttons include Advertisers, Articles, Authors, Partners, and Subscribers. Selection of the Advertisers button provides an Advertiser web page that allows the user to add or find a certain advertiser on the appropriate database table, as shown in Figure 7. Selection of an "Add Advertiser" button 802 provides a web page as shown in Figure 8 that allows the user to enter information on a new advertiser, such as name, address, email, phone number, etc., which will be added to the advertiser database table. In the alternative, the user may search the database for an existing advertiser record by entering various search criteria into the form (e.g. name, email address, company name) and returning the web page to the server via search button 804, which will perform the search and provide the appropriate results.

Selection of the Articles button provides a web page that allows the user to add or find a certain article on the appropriate database table. Selection of an "Add An Article" button provides a web page that allows the user to enter information on a new article, such as title, URL (location of article on the web), copyright information, summary of article, whether it is to be included in a Table of Contents, and whether an ID will be required for access by a reader, which will be added to the article database table. In the alternative, the user may search the database for an existing article record by entering various search criteria into the form (e.g. title, URL, or ID number)) and returning the web page to the server, which will perform the search and provide the appropriate results. This functionality is similar to the functionality described for Advertisers above, with reference to Figures 7 and 8.

Selection of the Authors button provides a web page that allows the user to add or find a certain author on the appropriate database table. Selection of an "Add Author" button provides a web page that allows the user to enter information on a new author, such as name, address, email, phone number, the URL of a photo, and biography information, which will be added to the advertiser database table. In the alternative, the user may search the database for an existing author record by entering various search criteria into the form (e.g. name, email address) and returning the web page to the server, which will perform the search and provide the appropriate results. This functionality is similar to the functionality described for Advertisers above, with reference to Figures 7 and 8.

Similarly, the user may select a Partner button or a Subscriber button, each of which will provide web pages for searching or adding partners or subscribers in the same manner as described above.

## REPORTS

The REPORTS navigational buttons include Advertisers, Articles, and Partners. Selection of the Advertisers button provides the user with the option to select a Contracts report page, a Leads report page, a Positions report page, or a Click Through report page. The Contracts report page provides a scroll list that allows the user to select an advertiser, after which a report is generated by the server that will list each contract for that advertiser, including contact information, the Ad Start Date, the Ad End Date, the URL of the advertisement, the articles in which the advertisement is placed (and the position therein), and, if desired the advertisement itself. An example of an Advertiser Contract Report is shown in Figure 9.

The Leads report page allows the user to view and print registered readership by advertiser. Thus, by specifying the beginning and ending dates as well as the advertiser, the user will be provided with the appropriate data in report format. The report will list, for each article, the name, address, email, etc. for each user that has accessed that article.

The Positions report page allows the user to view and print advertisements and advertisement positions by advertiser and date. Thus, by entering the beginning date, end date, and desired advertiser, the user will obtain a report accordingly.

5 The Click Through report page provides the user with an Advertisement Click Count Report. This provides the user with counts of click-throughs from tracked links, articles and advertisements where the hyperlink was not entered in the article database but tracking was turned on at the link. The report will show the advertisement and number of click-throughs for a given date.

10 Selection of the Articles button provides the user with the option to select a Usage report page, an Activity report page, or a Leads report page. The Usage report page will provide a Comparative Article Usage Report, which will allow the user to view relative activity of each article or section of his site (or content ranked by activity). Thus, by  
15 entering a beginning date and an end date, and selecting a sort by article title or usage, the number of hits for each article is shown in bar graph format. An example of the Article Usage Report is shown in Figure 10.

20 The Activity report page will provide an Article Activity and Statistics Report, which will allow the user to view article activity by number of registered users and nonregistered users, as well as by the number of people who used the used the print and email referral feature. Thus, by  
25 entering a beginning date and end date, each Article Title is shown along with the View Count, Print Count, Email Count (Known and Unknown) for each article.

30 The Article Leads report page allows the user to view and print registered readership by article. Thus, by specifying the beginning and ending dates as well as the article, the user will be provided with the appropriate data in report format. The report will list, for each article, the name,

address, email, etc. for each user that has accessed that article.

Selection of the Partners button allows the user to access reports on Partner Activity and Partner Leads, which are similar to those set forth above.

The publishing management server comprises a database such as a SQL database or the like that includes various tables used to store information for the present invention. The tables are provided as follows:

#### TABLE DESCRIPTIONS

##### Adartpos

This table contains the combined information about advertisements, articles, and positions. It allows the publishing of a particular advertisement in any number of articles, in any position therein, and in the case of banner (graphic) advertisements, the horizontal and vertical size as well as the border width.

Two specialized types of records are contained in this table. The first is the record containing information necessary to place an advertisement in a system generated table of contents by topic. The second is the information necessary to place an advertisement in a key word search.

Field Name	Type	Description
ap_id	decimal	System generated unique record key. Used to identify one ad placement against all others.
ap_pa_id	float	Ad position ID, from the POSITION table.
ap_art_id	float	Article ID from the ARTICLES table



ap_ad_id	float	Advertisement ID, from ADVERTS, indicates what ad to display in what position in what article.
ap_lastview	datetime	System maintained date and time ad was last served. When more than one ad is in the same position in an article, this time is used to serve the one with the oldest last view.
ap_view_ct	float	A counter for each time the advertisement is served. This can be reset by the advertiser, since actual counts come from the number of entries in USAGELOG
ap_click_ct	float	A counter for each time the advertisement is clicked when the advertisement is a banner ad. This can be reset by the advertiser, since actual counts come from the number of entries in USAGELOG
ap_height	float	If the advertisement is a banner ad, this will cause the graphic to be displayed at this height - note that for each ad position in this table, the same advertisement can be shown in a different size to match the document it's displayed in.
ap_width	float	If the advertisement is a banner ad, this will cause the graphic to be displayed at this width - note that for each ad position in this table, the same advertisement can be shown in a different size to match the document it's displayed in.
ap_border	float	If the advertisement is a banner ad, this will cause the graphic to be displayed with this border - note that for each ad position in this table, the same advertisement can be shown with different border to match the document it's displayed in.
ap_ak_id	float	For keyword (or search) advertising, this ID from the ADKEYWORDS table indicates the ad to server for the search results. When this is not zero, the information is used instead of the ap_id.

Adkeywords

This table contains the actual keyword linked in the keyword search.

Field Name	Type	Description
ak_id	float	System generated unique key.
ak_keywords	varchar(255)	Key words or phrase that is used to determine what, if any, advertisement to show with a search result.

#### ADKEYWORDS\_XREF

This table contains the cross reference between the keyword and the advertisement associated with it. One advertisement can be associated with many keywords, and many advertisements can be associated with one keyword. The system automatically displays the one that has not been seen for the longest time.

Field Name	Type	Description
ak_id	float	Keyword ID from the ADKEYWORDS table
ad_id	float	Advertisement ID from the ADVERTS table

#### ADVERTISERS

The advertiser table contains basic advertiser information including address and contact information.

Field Name	Type	Description
av_pinnum	float	System generated unique key for each advertiser.
av_userid	char (20)	Advertiser user ID that is one part of the ID/Password combination needed to get individual reports through the Advertisers Information Subsystem. It

		defaults to the advertiser's contact last name. It can be changed by the Press2Web™ administrator.
av_password	char (10)	Advertiser Password, the other part of the ID/Password combination. It defaults to the AV_PINNUM, but can be changed by the advertiser.
av_prefix	char (10)	Contact prefix, such as Mr, Mrs, Ms, or Dr.
av_fname	char (15)	Contact first name
av_mi	char (2)	Contact middle initial(s)
av_lname	char (20)	Contact last name.
av_suffix	char (10)	Contact suffix, such as Jr, PhD, etc.
av_title	varchar (50)	Contact title
av_company	varchar (50)	Advertiser's company name
av_addr1	char (40)	Advertiser's street address, line 1
av_addr2	char (40)	Advertiser's street address, line 2
av_city	char (20)	Advertiser's city.
av_province	char (10)	Advertiser's state or province
av_country	char (20)	Advertiser's country
av_postal	char (20)	Advertiser's postal/zip code
av_website	varchar (200)	Advertiser's web site url
av_email	varchar (200)	Advertiser's e-mail address.
av_fax	char (20)	Advertiser's fax number
av_phone	char (20)	Advertiser's phone number
av_tollfree	char (20)	Advertiser's toll free number
av_opendt	datetime	Date advertiser record was created. System generated
av_lastondt	datetime	Date the advertiser last used the Press2Web™ Advertiser Information System

## ADVERTS

The adverts table contains information about the advertisements, including the advertiser it belongs to, the type of advertisement it is, its starting and ending date, and when the advertiser should be called to renew the advertisement contract.

Field Name	Type	Description
ad_id	float	System generated unique advertisement ID.
ad_pinnum	float	Advertiser PIN, links this advertisement to a particular advertiser.
ad_type	char (1)	Type of advertisement, (D)isplay or (B)anner. Determines how Press2Web™ displays the advertisement.
ad_title	Varchar (100)	Campaign name for this advertisement - or just a title to give humans a break
ad_start	datetime	Date the advertisement can start it's run - as of midnight of the day indicated
ad_end	datetime	Date the advertisement stops running - as of midnight of the day indicated
ad_renew	datetime	Date to remind Press2Web™ owners this advertiser needs to renew advertisement contract
ad_graphic	varchar (200)	URL of the graphic to display or HTML file to include when advertisement is served.
ad_url	varchar (200)	If this is a banner advertisement, this is the URL to go to when clicked.
ad_opened	datetime	System generated date when this record was opened.
ad_active	bit	A flag to turn serving this advertisement on and off, even if in a current contract period (between ad_start and ad_stop dates).

## ARTICLES

This table contains the information about articles served by Press2Web™, including the title shown on the table of contents, summary, copyright information other than the default, the url, and several switches that determine the articles status.

Field Name	Type	Description
ar_id	float	System generated unique article key.
ar_title	varchar (100)	Article title.
ar_summary	varchar (2048)	Article summary displayed on the Table of Contents when using the Press2Web™ TOC tools.
ar_copyright	varchar (50)	If the copyright of this article is different from the default, Press2Web™ will display the contents of this field instead of the default copyright.
ar_url	varchar (100)	The URL of the article
ar_is_new	bit	Flag to indicate this is a new article - Press2Web™ will place a special graphic near new articles in the Table of Contents tools.
ar_is_active	bit	Flag to allow/disallow the displaying of this article
ar_ct_id	float	
ar_opendt	datetime	System generated date the record was created
ar_view_ct	float	System updated view count - this can be reset by the Press2Web™ system administrator. The actual total counts come from USAGELOG entries
ar_last_view	datetime	System updated date and time article was last viewed.
ar_inc_toc	bit	Indicates the article should be included in the Table of Contents. Press2Web™ can track articles other than those in a TOC.
ar_record	bit	Flag to indicate to Press2Web™ that access to this article should be recorded.
timestamp_column	binary (8)	System generated time stamp
ar_require_id	bit	Indicates to Press2Web™ that an article can only be seen by a subscriber. (A login is required to see the article)

## AUTHORS

The Authors table contains contact information for all the authors. Press2Web™ has the tools for displaying author information directly from articles.

Field Name	Type	Description
au_auth_id	float	System generated unique author ID
au_prefix	char (10)	Contact prefix, such as Mr, Mrs, Ms, or Dr.
au_fname	char (15)	Contact first name
au_mi	char (2)	Contact middle initial(s)
au_lname	char (20)	Contact last name.
au_suffix	char (10)	Contact suffix, such as Jr, PhD, etc.
au_title	char (40)	Contact title
au_company	char (40)	Author's company name
au_addr1	char (40)	Author's street address, line 1
au_addr2	char (40)	Author's street address, line 2
au_city	char (20)	Author's city.
au_province	char (10)	Author's state or province
au_country	char (25)	Author's country
au_postal	char (10)	Author's postal/zip code
au_bio	varchar (2048)	A text field that may contain the author's biographic information. Press2Web™ will display it automatically if the appropriate tool is used.
au_email	char (50)	Author's e-mail address.
au_photo_url	char (100)	If it is desired to display the author's picture, this is the path to that graphic.

## AUTHXREF

This table is the cross reference between the articles and authors. One author may write many articles. One article may also have multiple authors. Press2Web™ has the tools for creating author links on each article.

Field Name	Type	Description
ar_id	float	Article ID from the ARTICLES table
auth_id	float	Author ID from the AUTHORS table

#### BUSINESS

The business table contains the entries used for subscriber validation.

Field Name	Type	Description
bs_id	float	System generated business ID
bs_name	varchar (50)	Description of the business.

#### CATEGORY

The category table is used for grouping catalog products together by category.

Field Name	Type	Description
cc_id	int	System generated unique category ID
cc_name	varchar (50)	Category name
cc_desc	varchar (1024)	Category description
cc_special	bit	Spare field used for custom applications
cc_opendt	datetime	System generated date record was created.

## ITEMCAT

This is the cross-reference table that links a catalog item with categories - one item can belong to several categories; one category can contain several items.

Field Name	Type	Description
ci_id	int	Category item ID from CAT_ITEMS table
cc_id	int	Category ID from CATEGORY table

## ITEMPROG

This cross-reference table links catalog items with the incentive program they belong to - one item can belong to several programs; one program can contain several items.

Field Name	Type	Description
ci_id	int	Category item ID from CAT_ITEMS table
cp_id	int	Program ID from CAT_PROGRAM table

## CAT\_ITEMS

The main catalog table containing all the information associated with a product including pricing, description, and image url.

Field Name	Type	Description
ci_id	int	System generated unique catalog item ID.
ci_name	[varchar (50)]	Item name
ci_desc	varchar (1024)	Item description



ci_retail_price	float	Item retail price
ci_whsle_price	float	Item wholesale price
ci_distrib_price	float	Item distributor price
ci_graphic	varchar (50)	The URL of the picture of the item for Press2Web™ to display
ci_url	varchar (100)	The URL to jump to if the picture is clicked on
ci_height	int	Height to display the graphic
ci_width	int	Width to display the graphic
ci_border	int	Border width to put around graphic
ci_mfg_item_no	varchar (50)	Manufacturer's item number
ci_opendt	datetime	System generated date this record was created

#### CAT\_PROGRAM

This is the catalog item program table. It is linked to the items through the ITEMCAT table. Programs are used to group items.

Field Name	Type	Description
cp_id	int	System generated unique ID for this program
cp_name	varchar (50)	Name of the program
cp_opendt	datetime	System generated date this record was created

#### COUNTRY

This is the country table. It is used for validating the addresses for subscribers, partners, authors, and advertisers.

Field Name	Type	Description
------------	------	-------------

cy_name	char (30)	Name of this country
cy_id	int	System generated unique ID for this country

## GROUPS

Groups are a totally artificial method of linking subscribers together. Used only by Press2Web™ administrators.

Field Name	Type	Description
gp_id	float	System generated unique group ID
gp_name	varchar (50)	Name of the group

## GROUPXREF

This table links the subscribers to the group table - a subscriber can belong to several groups; a group contains one or more subscribers.

Field Name	Type	Description
sb_pinnum	float	Subscriber PIN, from SUBSCRIBERS table
gp_id	float	Group ID from GROUPS table

## NEWSLETTERS

Press2Web™ can manage the subscriptions to e-mail newsletters. This is the table that contains the newsletters managed.

Field Name	Type	Description
------------	------	-------------

nl_id	float	System generated unique Newsletter ID
nl_name	varchar (50)	Newsletter name or title

## NEWSXREF

This table is the cross reference between subscribers and newsletters. A subscriber can subscribe to any number of newsletters; newsletters can have any number of subscribers.

Field Name	Type	Description
sb_pinnum	float	Subscriber PIN, from SUBSCRIBERS table
nl_id	float	Newsletter ID from NEWSLETTERS table

## NEXTKEY

Each table contains a master (unique) key id. Although it is possible to have SQL server generate a key, the key is only known after a record is saved. Using a stored procedure to generate a key beforehand, nothing has to be written to the databases until a record is actually saved. In a highly interactive, web-based data management system, this is the preferable way. This is a Press2Web™ internally managed table and should never be changed by end users.

Field Name	Type	Description
key_name	char] (10)	Unique key name.
key_value	float	Current key value
key_incr	float	Number to increment key_value by before returning new key.

## P2W\_ERRORS

In an effort to make errors more understandable to the end user, Press2Web™ contains a rudimentary error reporting system that attempts to let the user know what's wrong and how they can recover from the problem. This is an internal Press2Web™ table that should never be changed by end users.

Field Name	Type	Description
er_id	char (10)	Unique error ID.
er_message	varchar (1024)	Error message to display.
er_solution	varchar (1024)	Solution message to display
er_opendat	datetime	System generated date record was created.

## PARTNERS

Partners are companies other than the web site owner that can use any number of the articles associated with Press2Web™. Partnering offers content to website owners that they don't have to maintain, and offers advertisers new formats for their advertising. Partnering also offers a revenue stream for the Press2Web™ owner by charging advertisers by partner site. Partner sites can have their own look and navigation. The partner table contains information about the partner and several switches that tell Press2Web uses for article displays.

Field Name	Type	Description
pt_id	float	System generated unique partner ID
pt_name	char (50)	Partner name. This is used wherever the partner name is displayed on the web. Very often the name displayed is different from the company name.
pt_prefix	char (10)	Contact prefix, such as Mr, Mrs, Ms, or Dr.

pt_fname	char (15)	Contact first name
pt_mi	char (2)	Contact middle initial(s)
pt_lname	char (20)	Contact last name.
pt_suffix	char (10)	Contact suffix, such as Jr, PhD, etc.
pt_company	char (40)	Partner company name
pt_title	char (40)	Contact title
pt_addr1	char (40)	Partner's company name
pt_addr2	char (40)	Partner's street address, line 1
pt_city	char (25)	Partner's street address, line 2
pt_province	char (10)	Partner's city.
pt_postal	char (10)	Partner's state or province
pt_country	char (20)	Partner's country
pt_phone	Char (20)	Partner's phone number
pt_email	Char (50)	Partner's e-mail address
pt_comments	Varchar (2048)	Space for any comments the Press2Web™ users might want to put about this partner.
pt_sourcecode	char (20)	Partner's source code - this is the code that allows Press2Web™ to track activity by partner - it is unique.
timestamp_column	Binary (8)	System maintained date and time
pt_password	char (20)	Partner's password - necessary to get into the Press2Web™ Partner Information subsystem. It can be changed as long as the password/user id pair are unique.
pt_userid	char (10)	Partner's user ID - necessary to get into the Press2Web™ Partner Information subsystem. It can be changed as long as the password/user id pair are unique.
pt_opendt	datetime	System generated date the partner record was created.

pt_can_search	bit	Flag to indicate to Press2Web™ that subscribers entering through this partner site can have access to the index search function in the article manager.
pt_can_print	bit	Flag to indicate to Press2Web™ that subscribers entering through this partner site can have access to the print function in the article manager and the Top of Page Press2Web™ tool.
pt_can_email	bit	Flag to indicate to Press2Web™ that subscribers entering through this partner site can have access to the 'e-mail a friend' function in the article manager and the Top of Page Press2Web™ tool.
pt_can_toc	bit	Flag to indicate to Press2Web™ that subscribers entering through this partner site can jump to the Table of Contents in the Top of Page Press2Web™ tool.

#### PF\_CATEGORY

The Primary Function category table allows grouping of primary functions. For instance, President, CEO, CIO or CTO could all belong to a category 'General Management'. This table is a validation table for categorizing Primary Functions. A primary function can only have one category.

Field Name	Type	Description
pc_id	int	System generated unique key for this primary function category
pc_descrip	varchar (50)	Primary function category description
pc_opendt	datetime	System generated date this record was created

#### POSITIONS

This table is for naming the positions advertisements can be placed in an article.

Field Name	Type	Description
pa_id	float	System generated unique advertisement position ID
pa_name	varchar (50)	Name of the advertisement position.

## PRIMARY\_FUNCTION

This is the table for validating subscriber primary functions.

Field Name	Type	Description
pf_id	int	System generated unique primary function ID
pf_descrip	varchar (50)	Primary function description
pf_pc_id	int	Primary function category, used for grouping primary functions, from the PF_CATEGORY table.
pf_opendt	datetime	System generated date this record was created

## PT\_AD\_XREF

This table contains records that indicate advertisements that should not be shown on a particular partner site. By default, Press2Web™ shows all advertisements on all partner sites. By adding a record in this table, advertisements can be suppressed from a partner site.

Field Name	Type	Description
ad_id	float	Advertisement ID from ADVERTS
pt_id	float	Partner ID from PARTNERS table

## PT\_AR\_XREF

This table contains records that indicate articles that should not be shown on a particular partner site. By default,

Press2Web™ shows all articles on all partner sites. By adding a record in this table, articles can be suppressed from a partner site.

5

Field Name	Type	Description
pt_id	float	Partner ID from PARTNERS table
ar_id	float	Article ID from ARTICLES table

QSUBS\_\*\*\*\*\*

10

A partner can have, in addition to the basic demographic information, information collected specially for them. Each partner site will have a special table called 'QSUB\_' and the partner source code. If Press2Web™ detects this table, it will look for code to add to the registration form. If the code exists, this information will be gathered.

15

Field Name	Type	Description
qs_pinnum	float	Subscriber PIN, used to link this record to a subscriber.
qs_1..n	Varies	These fields contain the answers from subscribers with the appropriate source code. Each partner can have its own questionnaire beyond the default name and address information required by Press2Web™.

20

STATES

A table for validating states or provinces in all addresses.

Field Name	Type	Description
abbrev	char (2)	State or province abbreviation



fullname	char (20)	Full state of province name
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## SUBSCRIBERS

- 5 The subscriber table contains all the subscriber demographic information, including paid circulation data.

Field Name	Type	Description
sb_pinnum	float	System generated unique ID for this subscriber
sb_userid	char (20)	Subscriber's user ID, can be changed by the user, but the user id/password pair must be unique.
sb_password	char (10)	Subscriber's password, can be changed by the user, but the user id/password pair must be unique.
sb_prefix	char (10)	Contact prefix, such as Mr, Mrs, Ms, or Dr.
sb_fname	char (15)	Contact first name
sb_mi	char (2)	Contact middle initial(s)
sb_lname	char (20)	Contact last name.
sb_suffix	char (10)	Contact suffix, such as Jr, PhD, etc.
sb_title	varchar (50)	Contact title
sb_company	varchar (50)	Subscriber's company name
sb_addr1	char (40)	Subscriber's company name
sb_addr2	char (40)	Subscriber's street address, line 1
sb_city	char (20)	Subscriber's street address, line 2
sb_province	char (10)	Subscriber's city.
sb_country	char (20)	Subscriber's state or province
sb_postal	char (20)	Subscriber's country
sb_email	varchar (200)	Subscriber's e-mail address
sb_fax	char (20)	Subscriber's fax number

sb_phone	char (20)	Subscriber's phone number
sb_source	char (10)	Original partner source code subscriber registered with
sb_opendt	datetime	System generated date this record was created
sb_lastondt	datetime	Date subscriber was last logged in - system updated.
sb_restrict	bit	Flag to indicate the subscriber has paid to not have his name used. Basically an indication of a paid subscriber. Not currently in use.
sb_dont_use	bit	Flag to indicate the subscriber should not be counted in the usage statistics
sb_paid_sub	bit	Indicates subscriber is a paid one, and is paid up.
sb_sub_pd_dt	datetime	Date subscriber paid
sb_sub_beg_dt	datetime	Subscription begin date
sb_sub_end_dt	datetime	Subscription end date
sb_sub_pd_amt	float	Amount paid
sb_pf_id	bit	Subscriber's primary function code from the PRIMARY_FUNCTION table.

## TOP\_ADS\_XREF

This table is used to place advertisements on the system  
generated table of contents. It contains the information  
about ad sizing, order (from top to bottom), and of course,  
the advertisement ID.

Field Name	Type	Description
tp_id	float	Topic ID from the TOPICS table
ad_id	float	Advertisement ID from the ADVERTS table
ad_order	int	Order from top to bottom for the placement of the advertisement
ad_height	int	Advertisement height, if different from the default graphic

ad_width	int	Advertisement width if different from the default graphic
ad_border	int	Advertisement border width
ad_align	char (10)	Advertisement alignment (TOP,MIDDLE,BOTTOM, etc.)
tp_ad_key	float	System generated unique key for this record.

## TOPICS

- 5 Each article must belong to at least one ( and possibly more) topic to be displayed in the system generated table of contents. This table contains the topic id, the display name when it is a simple name, or the html code to display in place of the simple name.

Field Name	Type	Description
tp_id	float	System generated unique topic ID.
tp_name	char (50)	Topic name, displayed on the Table of Contents when the tp_heading field is empty.
tp_heading	varchar (1024)	The HTML code displayed at the beginning of a topic instead of the tp_name if filled in.

## TOPIXREF

- 15 This is the cross-reference table that links articles to topics. Every Press2Web™ managed article belongs to at least one topic; each topic can have any number of articles.

Field Name	Type	Description
tp_id	float	Topic ID from the TOPIC table.
ar_id	float	Article ID from the ARTICLES table.

## USAGELOG

One aspect of the invention is to track and report on traffic to the site. This is the table that logs all the activity associated with a site - from views of articles and advertisements to actions taken, like printing or e-mailing an article.

Field Name	Type	Description
access_dt	datetime	System generated date this record was created
currsourceid	varchar (10)	Source code from the current user
origsourceid	varchar (10)	Not currently in use.
url	varchar (100)	URL requested through CLICK.ASP.
ar_id	float	Article ID from the ARTICLES table
av_pinnum	float	Advertiser PIN when this record is about an advertisement.
sb_pinnum	float	Subscriber PIN when known, or zero if not.
pt_id	float	Partner ID from PARTNERS table - this ID goes with the currsourceid.
ad_id	float	Advertisement ID from the ADVERTS table through the ADARTPOS table when this record is about an advertisement
action	Varchar (10)	What action this record represents - VIEW, PRINT, EMAIL, SEARCH, or CLICK.

Figure 2 illustrates the data relationships and linkages between the various tables in the management server. In the figure, relationships are indicated by lines with arrowheads pointing from the parent table to the child table. On the line may be a label indicating the type of relationship as follows:

1. 1 to 1 indicates that there is one row in the child table for each row in the parent table.

2.1 to N indicates that for each row in the parent table there can be none to any number of rows in the child table.

5 The only columns shown on the diagram are the columns involved in relationships.

10 Two tables, ADARTPOS and USAGELOG, are the main tables for the system. ADARTPOS is the table that stores information about the placement of advertisements in the articles. It is driven by ADVERTS, ARTICLES, and POSITIONS. Each row contains data about an advertisement placement in an article in a particular position.

15 USAGELOG is where all activity tracked on the site is recorded. It is driven by the date and time, the subscriber, what the subscriber has requested or what article or advertisement has been displayed or clicked.

20 The rest of the tables provide a means of ensuring ADARTPOS can be filled correctly and USAGELOG contains useful information.

25 POSITIONS contain the English description of advertising positions, ARTICLES contain the title and ancillary information about articles the system manages, and ADVERTS contain the information necessary to display an advertisement.

30 ARTICLES may or may not have AUTHORS, but must have at least one TOPIC to be displayed in a table of contents. Some tracked articles will not have a topic because they are things like the table of contents itself or the home page.

ADVERTISERS may or may not have ADVERTS, but ADVERTS always have ADVERTISERS.

PARTNERS may or may not have restrictions on ARTICLES viewed when the system web site is entered with their source code, and may or may not have restrictions on ADVERTS for the same reason.

TOPICS may or may not have ADVERTS associated with them when a table of contents is displayed.

SUBSCRIBERS must have an PARTNER code. In addition, they may or may not have entries in the USAGELOG table.

It is important to note that figure 2 contains only the core tables necessary for running the system and that others, such as the KEYWORDS and KEYWORD advertising, CATALOG and it's related tables, and straight data verification tables (COUNTRY, PROVINCES) are not shown.

Figure 3, relating to Initial Contact and Redirection, shows how the system reacts to contact through a browser. The system is contacted through two mechanisms: the first is with just the root web name and the second is with a passed source code.

Contacting via the root web name makes the system assume the default partner. For instance:

<http://www.info-now.com>

will result in the default partner for info-now site and will redirect to the directory on the site that contains the documents for info-now.com.

5 <http://www.info-now.com/default.asp?source=MKC>

will result in the Marketing Click site being displayed. Marketing Click is an internal partner, meaning that their content is on the same server.

10 When the system is contacted, it looks for that source code. If there is none, it jumps to the default partner site. The default partner site is set up when the system is initially installed.

15 If there is a source code passed, checks to see if it's a valid one for that site. If it is, it jumps to that partner's content. If it isn't the system jumps to the default site's content.

20 In all cases, whichever source code the system decides the incoming request is from, it sets a cookie so that it doesn't have to check again.

25 With reference to Figure 4, Advertising Display, one of the system's core functions is to display advertisements and make it possible to track them. Any article that has an advertisement will have at least one entry in the code itself similar to the following:

30 <% = showad("Banner Position 1") 5>

This tag indicates that the advertisement placed in this article at Banner Position 1 should be retrieved and placed here in the document. The system takes this request and validates it for ARTICLE name (it exists and is active in the article table), POSITION (it is a valid position name), and finally that there has been an ADVERT assigned this position in this article in the ADARTPOS table.

If any error condition occurs, then an advertisement is not served and a diagnostic comment is written to the browser (not seen, except in 'view source' of the browser document).

The system then checks to see that the file that creates the advertisement exists. If not, it writes a diagnostic comment to the browser.

If the advertisement file exists, it is served with whatever links and alternate information it can supply from the ADVERTS table. Then Press2Web™ writes the fact that someone (if known, their PIN number) has seen the advertisement in USAGELOG.

The result is that the person browsing the document sees an advertisement and the fact is recorded.

The flow logic for Click through recording is shown in Figure 5. The click recording subsystem is the second major piece of the tracking system. Where the table of contents and advertisement display portions record what is passively seen, the click recording system records what has actively been done.



The system is called with a link in a document that can have two mutually exclusive parameters; an advertisement position key, and a URL.

5           In the event it is called with an advertisement position key, the system looks up in the ADARTPOS table for that key. It gathers all the information about the advertisement (advertiser ID, advertisement ID, where to go when clicked).

10           One feature is that a subscriber can be marked for not being recorded - their accesses are ignored. This is useful for subscribers that are owners or employees, or subscribers that have paid to not be recorded.

15           If the subscriber is known at this time, (they have logged in) and their 'don't use' flag is not set, the system will record their action as a click. If it is set, the system will just redirect the user to the URL gathered from the advertisement information.

20           If no advertisement position was passed, and a requested page was passed, the system will lookup the requested page in the ARTICLES table and determine if it represents an article that is tracked. If it is, and it requires a login, it will redirect the user to a page for logging in before calling  
25           itself again for processing.

30           If the system discovers that 1) the user is logged in and 2) the article requires a login OR the article doesn't require a login, it will record the appropriate information in USAGELOG and redirect the user to the new page.

If the system discovers that the requested page is not in the ARTICLES file, it will record the requested page in USAGELOG and redirect the user to the new page.

5           If neither an advertisement ID or requested page was passed, the system will display a diagnostic page. This will indicate that something is wrong and will indicate to the user what to do.

10           Figure 6 shows the flow logic for Generating A Table of Contents. The table of contents tool (TOC tool) allows for the generation of a table of topics, and a table of contents that includes summaries for the articles as well as advertisements associated with topics.

15           First the TOC tool gathers all the topics from the TOPICS table that have active ARTICLES that can be viewed given the current user's partner code. The PT\_ART\_XREF table contains entries for articles that are NOT seen with the current  
20           partner code. The result is a set of topics for this partner that have articles to be displayed.

          The system then displays the topics in a table as links to the summaries portion of the document.

25           The summaries portion of the document contains articles in alphabetic order by topic and title with their summaries and whatever advertisements are to be displayed in the table of contents.

30           Using the table generated at the beginning, the system gathers, by topic, all the article information necessary for

creating links. It then generates the HTML code for displaying the information.

5 It should be noted that two things are true: If an article is assigned no topics, it will not show up in the TOC, and if it is assigned more than one topic, it will appear in more than one place.

10 If any advertisements are placed by topic, then the system will display them appropriately.

**WE CLAIM:**

1. An online publishing management system comprising
  - A) at least one advertisement computer means for storing  
an advertisement file;
  - B) at least one article computer means for storing an  
article file; and
  - C) a publishing management server computer comprising:
    - (i) user interface means for receiving data from and  
sending data to a user;
    - (ii) database means for storing a plurality of  
database tables, said database tables comprising:
      - a) an advertisement table comprising a  
plurality of advertisement records, each advertisement record  
comprising information regarding an advertisement file stored  
on an advertisement computer means;
      - b) an advertiser table comprising a plurality  
of advertiser records, each advertiser record comprising  
information regarding an advertiser associated with at least  
one advertisement file stored on an advertisement computer  
means;
      - c) an article table comprising a plurality of  
article records, each article record comprising information  
regarding an article file stored on an article computer means;  
and
    - (iii) processing means adapted to:
      - a) generate a plurality of reports as a  
function of one or more of the database tables;
      - b) allow a user to input, via the user  
interface means, criteria for generating the reports;
      - c) provide the reports to a user via the user  
interface means; and

d) allow a user to enter or modify, via the user interface means, records in any of the database tables.

2. The online publishing management system of claim 1 wherein the database tables further comprise:

d) an author table comprising a plurality of author records, each author record comprising information regarding an author associated with at least one article file stored on an article computer means.

3. The online publishing management system of claim 1 wherein the database tables further comprise:

e) a partner table comprising a plurality of partner records, each partner record comprising information regarding a partner of the system.

4. The online publishing management system of claim 1 wherein the database tables further comprise:

e) a subscriber table comprising a plurality of subscriber records, each subscriber record comprising information regarding a subscriber of the system.

5. The online publishing management system of claim 1 wherein the processing means is further adapted to generate a composite article for publication to a subscriber; the composite article comprising an article file and at least one advertisement reference associated therewith.

6. The online publishing management system of claim 5 wherein the composite article is in HTML code, and wherein the associated advertisement reference is a resource locator of an advertisement associated with the composite article.

7. The online publishing management system of claim 6 wherein the resource locator of the associated advertisement is a URL.

5 8. The online publishing management system of claim 1 wherein the advertisement records each comprise an advertisement description field, a start field, an end field, an advertisement resource locator indicative of the location of the advertisement, a partner site permission field  
10 indicative of partner sites with which the advertisement may be displayed, and an article field indicative of the articles with which the advertisement has been associated.

15 9. The online publishing management system of claim 8 wherein the article field indicates a display position within the article that the advertisement will be displayed.

20 10. The online publishing management system of claim 8 wherein the advertisement record further comprises the advertisement file.

25 11. The online publishing management system of claim 1 wherein the article records each comprise an article description field, an article resource locator indicative of the location of the article, an active/inactive field indicating if the article is currently active, and a table of contents field indicating if the article should be included in a table of contents file.

30 12. The online publishing management system of claim 1 wherein the article records further comprise an advertisement display position field indicative of locations in the article in which an advertisement may be inserted.

13. The online publishing management system of claim 1 wherein the article records further comprise an author field.

5 14. The online publishing management system of claim 1 wherein the article records further comprise a topic field indicative of the subject matter of the article.

10 15. The online publishing management system of claim 1 wherein the article records further comprise a partner site filed indicative of partner sites on which the article may be associated.

15 16. The online publishing management system of claim 1 wherein the reports generated by the processing means comprise an advertiser contract report comprising a list of contract records for an advertiser of the system, the contract records comprising a description of the advertiser, a description of the advertisement associated with the advertiser, a field  
20 indicative of the start date and the end date of the advertisement, and a filed indicating an article that the advertisement is associated with and the display position within that article.

25 17. The online publishing management system of claim 1 wherein the reports generated by the processing means comprise an advertiser lead report comprising a list of advertiser lead records, each advertiser lead record comprising an  
30 identification of a subscriber, a list of articles previously accessed by that subscriber within a defined time period, and a list of advertisements associated with those articles previously accessed by that subscriber within a defined time period.

18. The online publishing management system of claim 1  
wherein the reports generated by the processing means comprise  
an article usage report comprising a list of articles and the  
number of subscribers that accessed each article in a given  
time period.

19. The online publishing management system of claim 1  
wherein the reports generated by the processing means comprise  
an article activity report comprising a list of articles and  
activity statistics, the activity statistics comprising the  
number of times the article was viewed, the number of times  
the article was printed, and the number of times the article  
was emailed.

20. The online publishing management system of claim 1  
wherein at least one advertisement computer means for storing  
an advertisement file is located on the publishing management  
server computer.

21. The online publishing management system of claim 1  
wherein at least one article computer means for storing an  
article file is located on the publishing management server  
computer.

22. The online publishing management system of claim 1  
wherein at least one advertisement computer means for storing  
an advertisement file is located on a computer remote from the  
publishing management server computer.

23. The online publishing management system of claim 1  
wherein at least one article computer means for storing an



article file is located on a computer remote from the publishing management server computer.

24. An method for online publishing management comprising the steps of

A) providing at least one advertisement computer means for storing an advertisement file;

B) providing at least one article computer means for storing an article file; and

C) providing a publishing management server computer comprising:

(i) user interface means for receiving data from and sending data to a user;

(ii) database means for storing a plurality of database tables, said database tables comprising:

a) an advertisement table comprising a plurality of advertisement records, each advertisement record comprising information regarding an advertisement file stored on an advertisement computer means;

b) an advertiser table comprising a plurality of advertiser records, each advertiser record comprising information regarding an advertiser associated with at least one advertisement file stored on an advertisement computer means;

c) an article table comprising a plurality of article records, each article record comprising information regarding an article file stored on an article computer means; and

(iii) processing means adapted to:

a) generate a plurality of reports as a function of one or more of the database tables;

b) allow a user to input, via the user interface means, criteria for generating the reports;

c) provide the reports to a user via the user interface means; and

d) allow a user to enter or modify, via the user interface means, records in any of the database tables.

5

25. The method of claim 24 further comprising the step of providing an author table comprising a plurality of author records, each author record comprising information regarding an author associated with at least one article file stored on an article computer means.

10

26. The method of claim 24 further comprising the step of providing a partner table comprising a plurality of partner records, each partner record comprising information regarding a partner of the system.

15

27. The method of claim 24 further comprising the step of providing a subscriber table comprising a plurality of subscriber records, each subscriber record comprising information regarding a subscriber of the system.

20

28. The method of claim 24 wherein the processing means carries out the step generating a composite article for publication to a subscriber; the composite article comprising an article file and at least one advertisement reference associated therewith.

25

29. The method of claim 28 wherein the composite article is in HTML code, and wherein the associated advertisement reference is a resource locator of an advertisement associated with the composite article.

30

30. The method of claim 29 wherein the resource locator of the associated advertisement is a URL.

5 31. The method of claim 24 wherein the advertisement records each comprise an advertisement description field, a start field, an end field, an advertisement resource locator indicative of the location of the advertisement, a partner site permission field indicative of partner sites with which the advertisement may be displayed, and an article field  
10 indicative of the articles with which the advertisement has been associated.

15 32. The method of claim 31 wherein the article field indicates a display position within the article that the advertisement will be displayed.

20 33. The method of claim 31 wherein the advertisement record further comprises the advertisement file.

25 34. The method of claim 24 wherein the article records each comprise an article description field, an article resource locator indicative of the location of the article, an active/inactive field indicating if the article is currently active, and a table of contents field indicating if the article should be included in a table of contents file.

30 35. The method of claim 24 wherein the article records further comprise an advertisement display position field indicative of locations in the article in which an advertisement may be inserted.

36. The method of claim 24 wherein the article records further comprise an author field.

37. The method of claim 24 wherein the article records further comprise a topic field indicative of the subject matter of the article.

5

38. The method of claim 24 wherein the article records further comprise a partner site filed indicative of partner sites on which the article may be associated.

10

39. The method of claim 24 wherein the reports generated by the processing means comprise an advertiser contract report comprising a list of contract records for an advertiser of the system, the contract records comprising a description of the advertiser, a description of the advertisement associated with the advertiser, a field indicative of the start date and the end date of the advertisement, and a field indicating an article that the advertisement is associated with and the display position within that article.

15

20

40. The method of claim 24 further comprising the step of providing the reports generated by the processing means comprise an advertiser lead report comprising a list of advertiser lead records, each advertiser lead record comprising an identification of a subscriber, a list of articles previously accessed by that subscriber within a defined time period, and a list of advertisements associated with those articles previously accessed by that subscriber within a defined time period.

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41. The method of claim 24 wherein the reports generated by the processing means comprise an article usage report comprising a list of articles and the number of subscribers that accessed each article in a given time period.

42. The method of claim 24 wherein the reports generated by the processing means comprise an article activity report comprising a list of articles and activity statistics, the activity statistics comprising the number of times the article was viewed, the number of times the article was printed, and the number of times the article was emailed.

43. The method of claim 24 wherein at least one advertisement computer means for storing an advertisement file is located on the publishing management server computer.

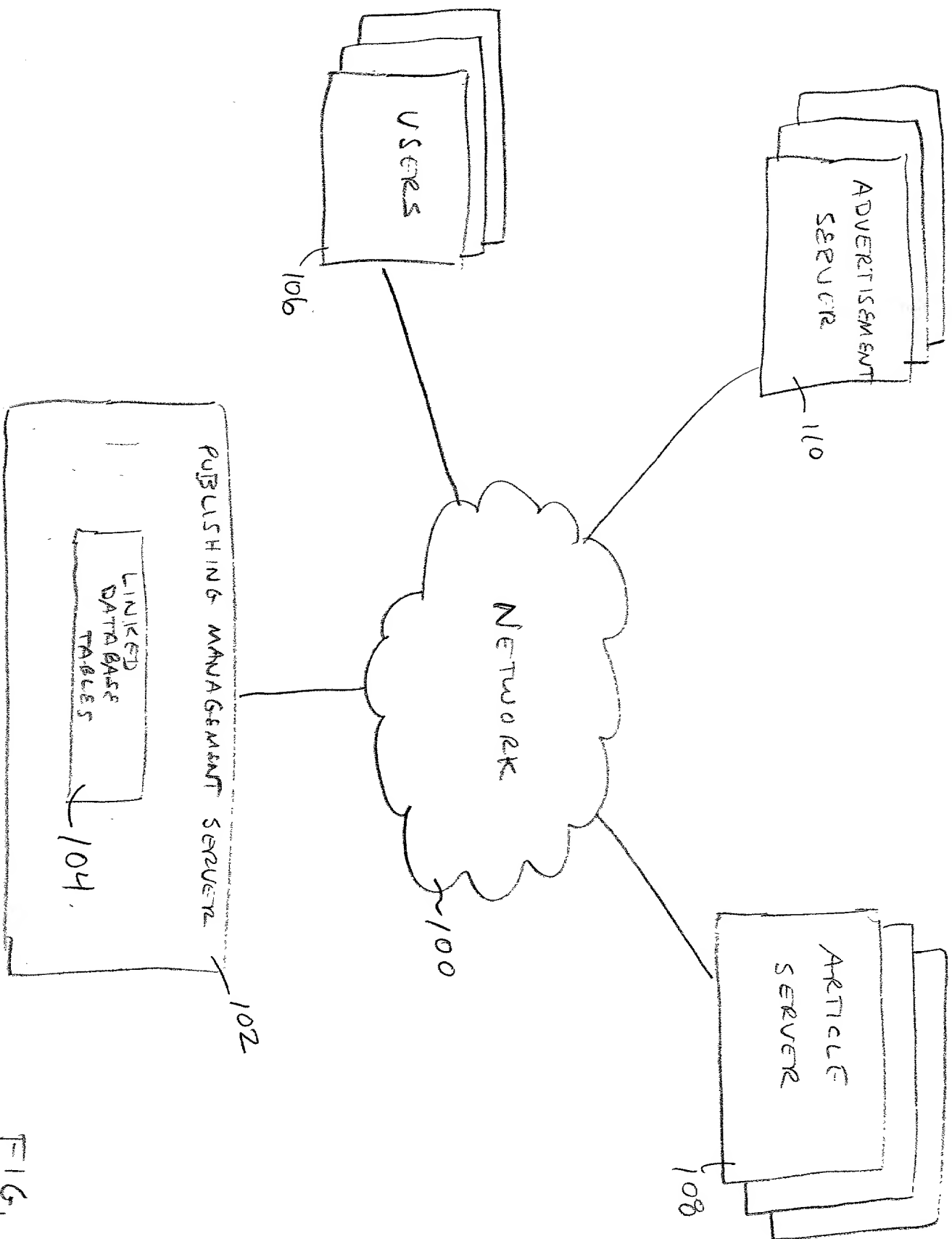
44. The method of claim 24 wherein at least one article computer means for storing an article file is located on the publishing management server computer.

45. The method of claim 24 wherein at least one advertisement computer means for storing an advertisement file is located on a computer remote from the publishing management server computer.

46. The method of claim 24 wherein at least one article computer means for storing an article file is located on a computer remote from the publishing management server computer.

**ABSTRACT**

5 The present invention is an online publishing management  
system and method that includes at least one advertisement  
computer means for storing an advertisement file; at least one  
article computer means for storing an article file; and a  
publishing management server computer. The publishing  
management server computer includes user interface means for  
10 receiving data from and sending data to user, database means  
for storing a plurality of database tables, and processing  
means. The database tables include an advertisement table  
having a plurality of advertisement records, each  
advertisement record having information regarding an  
15 advertisement file stored on an advertisement computer means;  
an advertiser table having a plurality of advertiser records,  
each advertiser record having information regarding an  
advertiser associated with at least one advertisement file  
stored on an advertisement computer means; and an article  
20 table having a plurality of article records, each article  
record having information regarding an article file stored on  
an article computer means. The processing means is adapted  
to generate a plurality of reports as a function of one or  
more of the database tables; allow a user to input, via the  
25 user interface means, criteria for generating the reports;  
provide the reports to a user via the user interface means;  
and allow a user to enter or modify, via the user interface  
means, records in any of the database tables.



007454344.111700

FIG. 1

FIG. 2

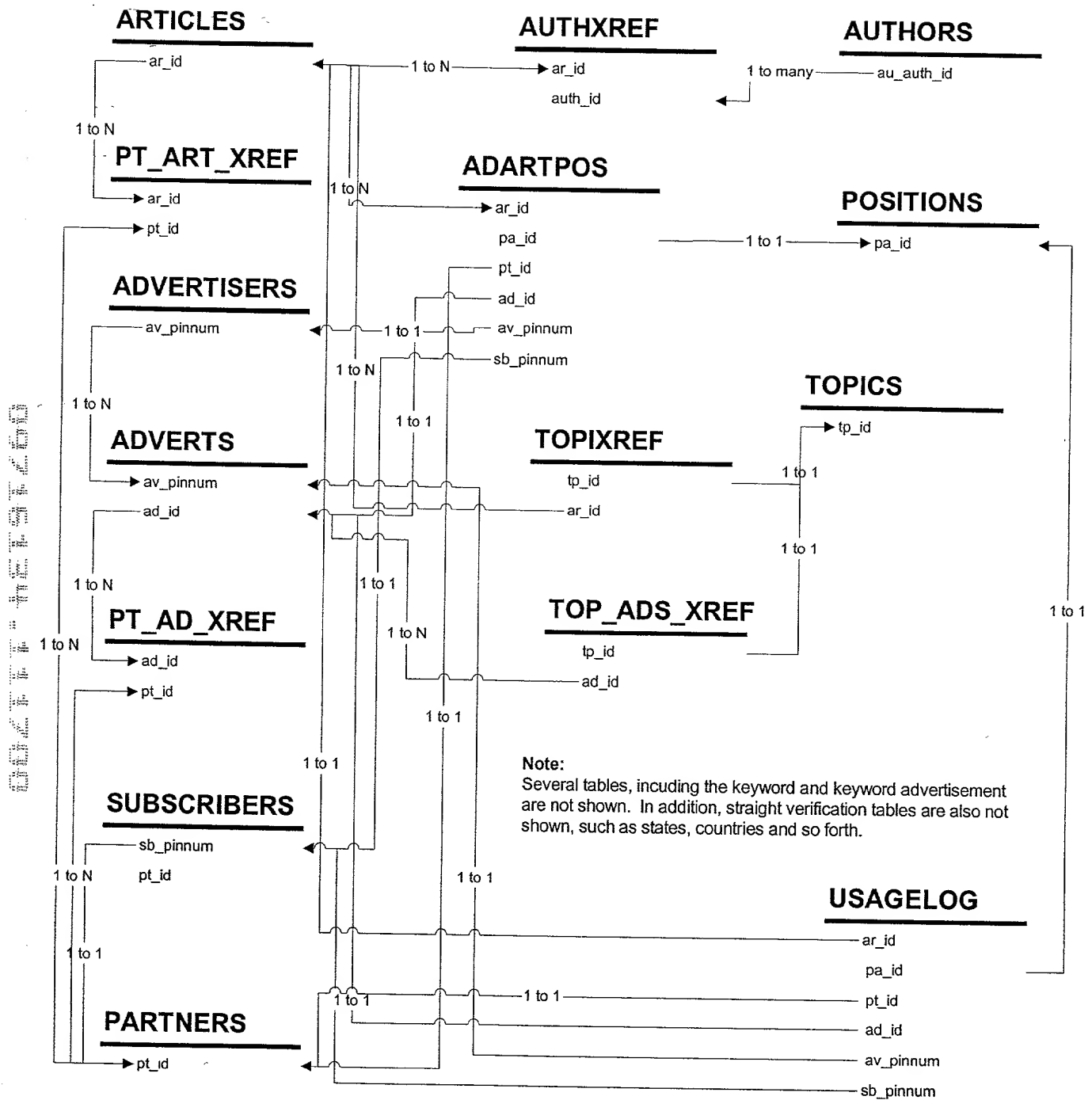
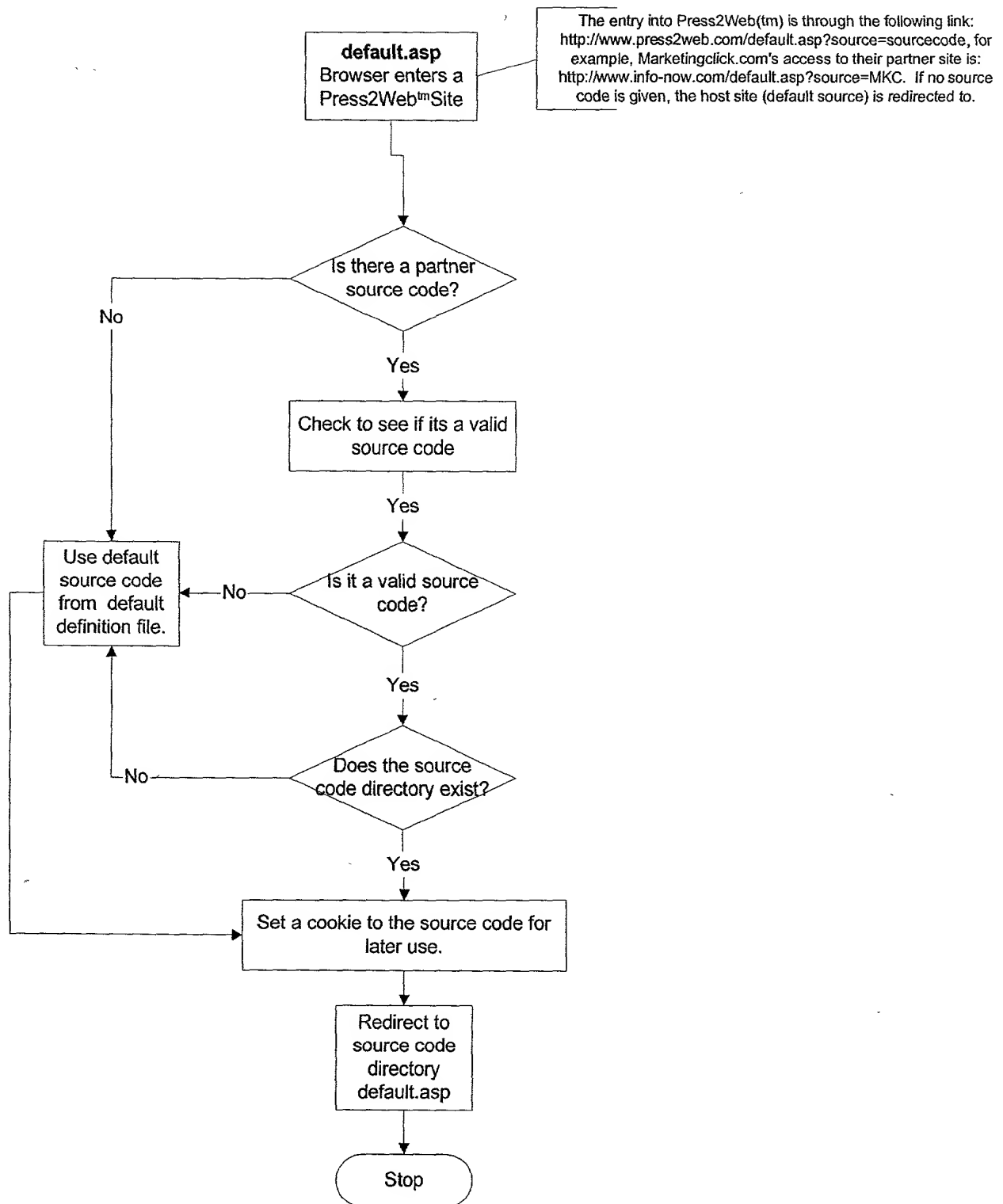


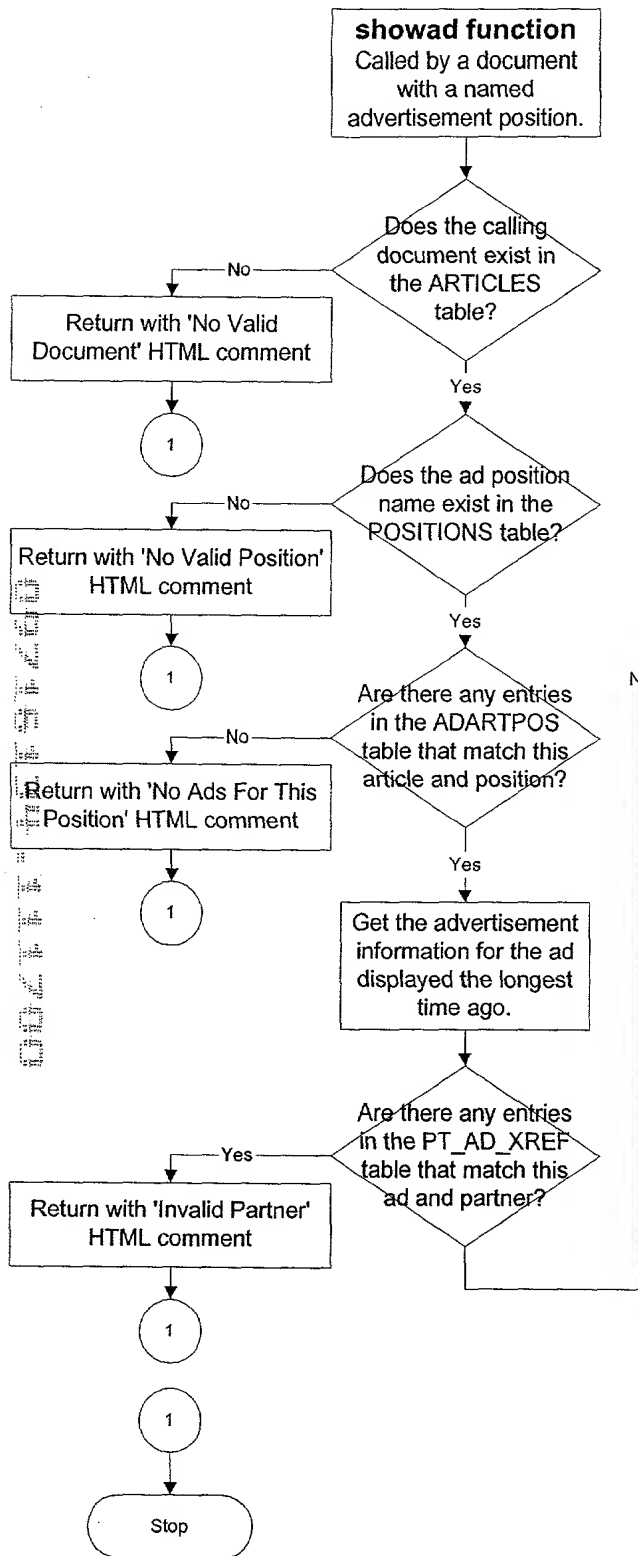


FIG. 3



**De**

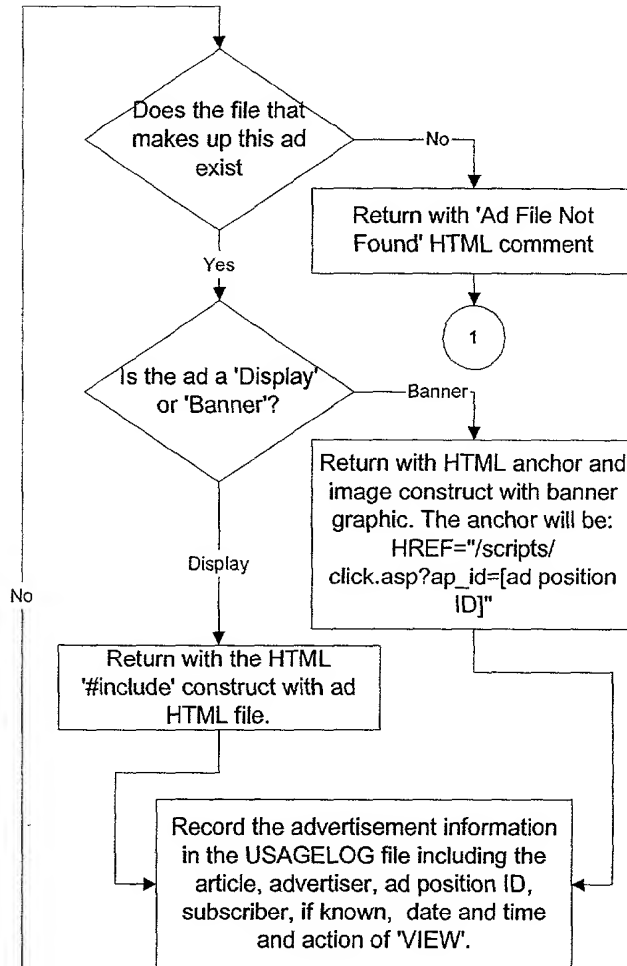
**K**



Example:

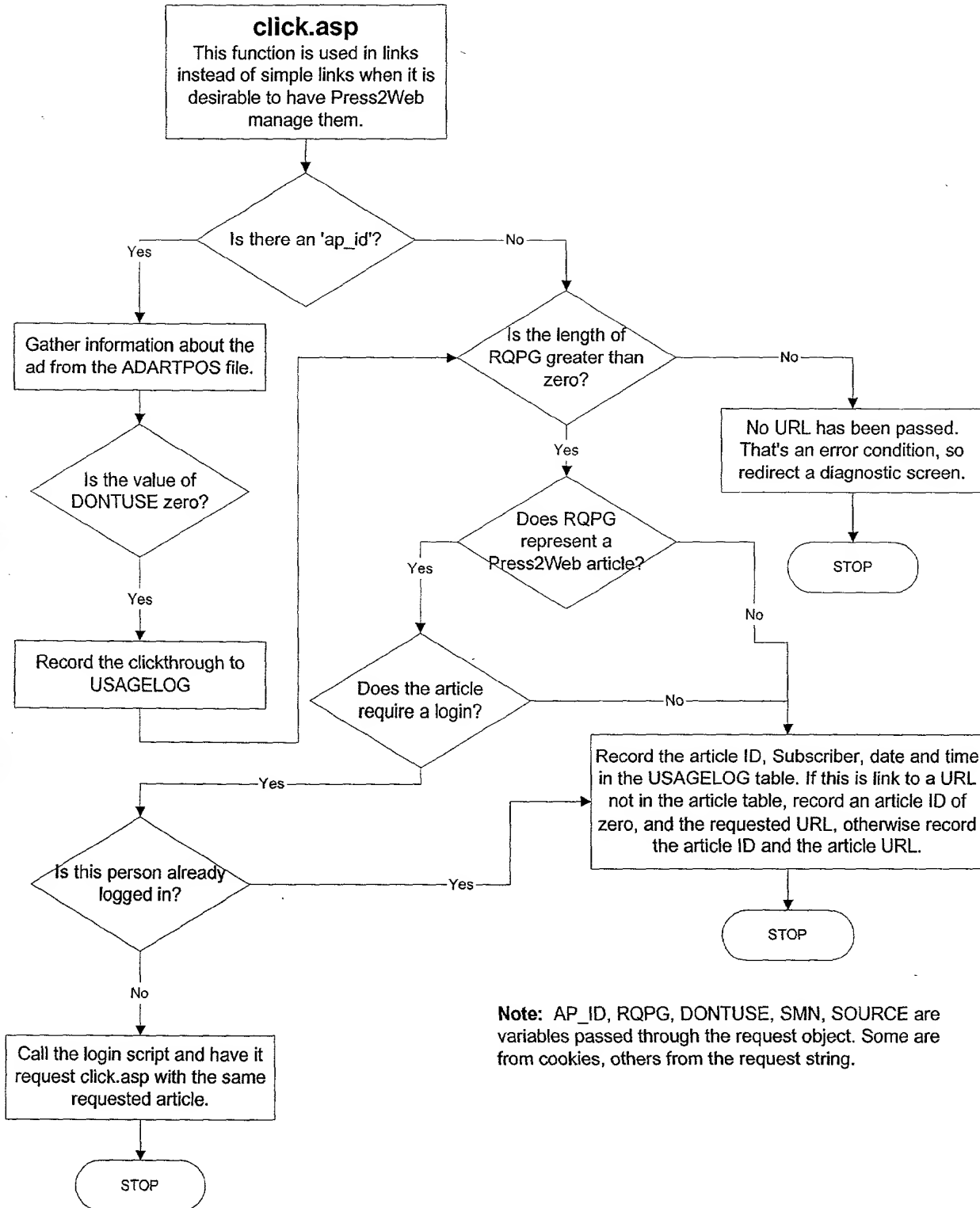
This code is inserted into a document where the first banner position should be

```
<%  
Showad("Banner Position 1")  
%>
```



Although this process makes several ADO calls to the SQL server, it is sufficiently fast to provide dozens of ads on a document in sub-second times.

FIG. 5



F16.6

**Press2Web System Documentation™  
Table Of Contents Display**

**TOC\_table.asp**

This program is used generate a table of contents in Press2Web.

Gather from the TOPICS all the topics that have active articles from the ARTICLES table that have no entries in the PT\_ART\_XREF table based on the current subscriber's source code.

For each topic, write out a local link to this document for the beginning of that topic.

For each topic, select the active articles with no entry in the PT\_ART\_XREF table.

For each topic, select the active advertisements with no entry in the PT\_AD\_XREF table.

If there is data in the topic header field, output that, otherwise, output the default topic name.

Are there any advertisements?

Begin two column table; First Column

For each article:

Is this a new article?

Display 'new' graphic

Display title and summary

Are there any more articles for the topic?

Are there any advertisements?

End First Column, Begin Second

For each advertisement:

Display the advertisement using Click.asp

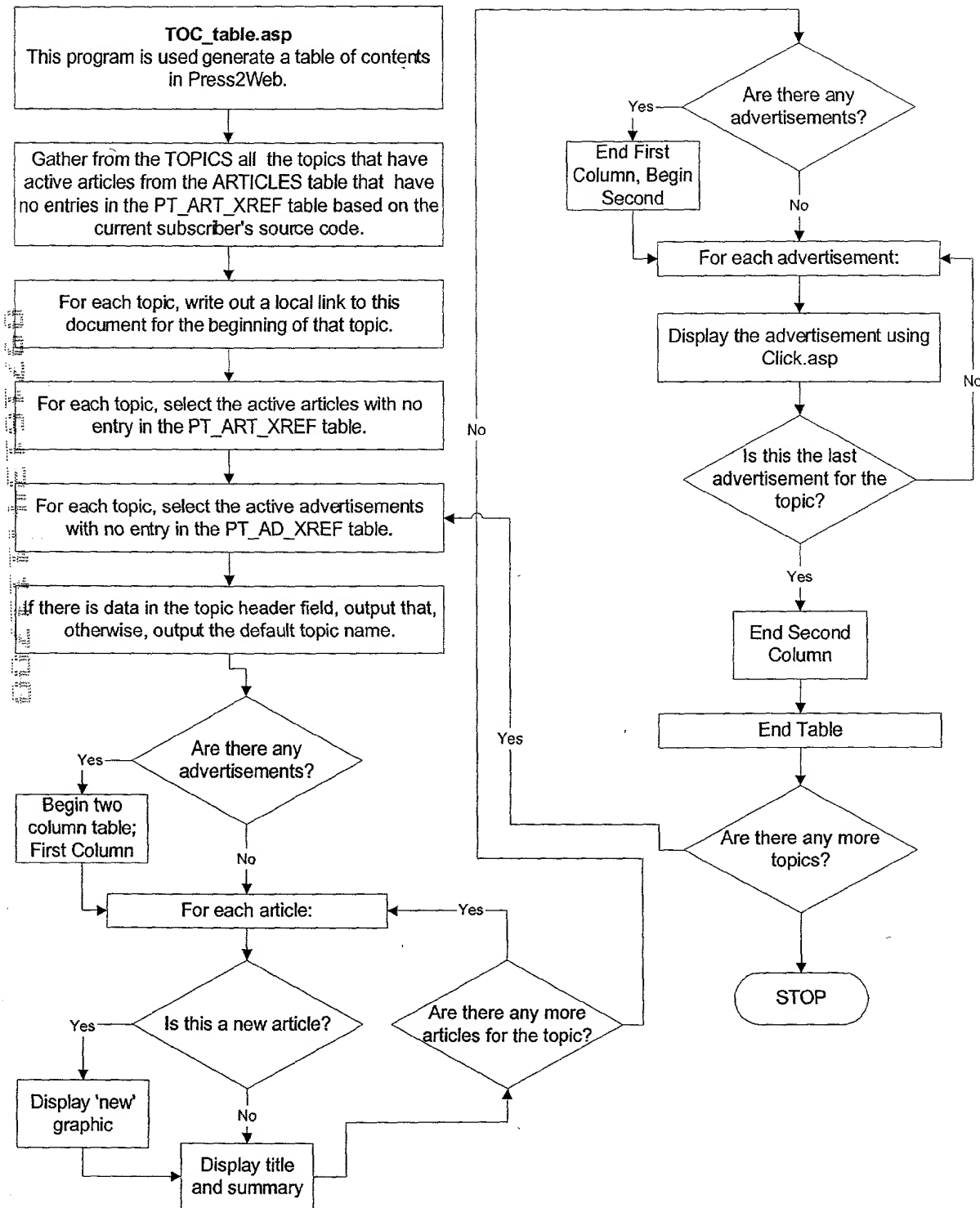
Is this the last advertisement for the topic?

End Second Column

End Table

Are there any more topics?

STOP



## ? ADD OR FIND AN ADVERTISER

Add or locate an advertiser or advertisement; maintain, edit and view advertisements and contract information on one or more partner sites.

Click here to

ADD AN ADVERTISER

802

To find an advertiser enter the PIN, e-mail address, last name, or company name of the advertiser you want to find.

You can substitute the character '%' for any number of characters, or '?' for any one character in the E-mail address or the Last Name. The PIN is a number, so you must supply it completely.

PIN:

Last Name:

E-Mail:

Created:

Company:

Order By: ☐ Last Name ☐ PIN ☐ Company ☐ E-Mail

SEARCH

Clear Form

F16.7



## ADD AN ADVERTISER

Use this form to add an advertiser. This is the first step to placing an advertisement. When you are finished with this form, you'll be sent to the 'Update Advertiser' form automatically.

Please Enter Advertiser particulars. Required fields are marked with 'Yes'

Req	Mr, Ms, Dr...	First Name	MI	Last Name	Jr, III, PhD...
Yes	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
No	Title	<input type="text"/>			
Yes	Company	<input type="text"/>			
Yes	Street 1	<input type="text"/>			
No	Street 2	<input type="text"/>			
Yes	City	<input type="text"/>			
Yes	State	<input type="text"/>			
Yes	Zip	<input type="text"/>			
Yes	Country	<input type="text"/>			
Yes	Email	<input type="text"/>			
Yes	Phone	<input type="text"/>			
No	Fax	<input type="text"/>			
No	Toll Free	<input type="text"/>			

Add Advertiser

Clear Form and Try Again

007164011-1147000

F16,8

# ADVERTISER CONTRACT REPORT

As of 9/15/00

Atkins Agency	
Pat Roberson Atkins Agency 1777 N.E. Loop 410 San Antonio TX 78217 E-Mail: none	Website: Fax: 210-930-6615 Phone: 210-826-5500 Toll Free: Created: 12/30/99 11:45:20 AM Last Logon:

Ad Type:	Display	Ad Title:	San Antonio CVB
Ad Start:	2/8/99	Ad Graphic:	/ads/SanAntonioConventionVB.htm
Ad End:	3/31/00	Ad URL:	
Ad Opened:	12/30/99 11:46:46 AM	Ad Active:	No

## WHERE THIS AD IS SHOWING

#5010 - Meetings: Core Overview	Display Position 1
#5723 - San Antonio	Display Position 1

Return to the Selection Screen

FIG. 9

# ARTICLE USAGE REPORT

As of 9/15/00

Between Date: 1/1/00 and 6/1/00  
Sorted By: Title

#1010 - Direct Marketing Overview Part I	193
#1011 - Direct Marketing Overview Part II	115
#1013 - How to Choose the Best Mailing Lists	102
#1020 - Customer Profiling and Modeling	120
#1021 Co-Op Direct Mail Strategies	35
#1022 - Sampling Strategies	67
#1023 - In-Home Sampling	97
#1030 - Sweepstakes for Direct Marketers	54
#1210 - Call Center Overview	121
#1211 - Customer Relationship Management Through Call Centers	60
#1310 - Market Research Overview	145
#1312 -Using Technology to Improve Survey Response	79
#2010 - Event Marketing: Core Overview	115
#2015 - Corporate Events	60
#2016 - Face-to-Face Marketing	70
#3003 - What's New in Incentives and Performance Improvement	166
#3010 - Incentives: Core Overview	115
#3020 - Strategies for Success	89
#3022 - Dealer Incentives	51
#3025 - Incentive Checklist	60
#3026 - Tracking Your Incentive Program	33
#3027 - Incentives Online	177
#3030 - Corporate Gifts	39
#3035 - Promotion Law	80
#3036 - Safety Incentives	28
#3040 - Debit Cards Explained	66
#3060 - Gift Certificates	43
#3065 - Cameras as Awards	28
#3066 - Apparel Incentives	25
#3068 - Clocks and Watches	21
#3069 - Food Gifts and Awards	20
#3070 - Prepaid Calling Cards	

FIG. 10